REMARKS

Favorable reconsideration of this application is requested in view of the above amendments and the following remarks.

The title of the specification has been amended to include a product using the electrically conductive macromolecules manufactured by the method in this application as supported by the specification at page 1, lines 7-9.

The specification has been amended to delete "supersaturated" and "supersaturation" as supported by Figs. 7A, 7B, 8A, and 8B and the original specification at page 6, lines 23-33 and page 11, line 23 – page 12, line 12. This is intended to reduce possible confusion, since it is clear from the teachings in the specification that one of the common technical understandings of "supersaturated steam" is not applicable in the present case.

Claims 1, 3, 4, and 5 have been amended to delete "supersaturated" as discussed above for the amendment of the specification. Further, claim 1 has been amended to clarify the method as a two-step method as supported by the specification at page 1, lines 7-9 and page 11, lines 25-35 in addition to editorial revisions; claim 2 has been amended to limit the temperature of the polymerization process as supported by the specification at page 7, lines 5-13; claim 3 has been amended to limit the temperature of the steam atmosphere as supported by Figs. 7A, 7B, 8A, and 8B, the original claim 3, and the specification at page 11, lines 30-35; claim 4 has been amended to limit the steam concentration as supported by the specification at page 5, lines 18-27 and page 11, lines 30-35; and claim 5 has been amended editorially.

Claims 10 and 11 have been canceled without prejudice.

Claim 12 has been added as supported by the specification at page 8, lines 2-14; and claim 13 has been added as supported by the specification at page 7, lines 5-13.

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Claims 1-11 have been rejected under 35 U.S.C. 103(a) as being unpatentable over Miyata et al. (JP 63-020361). Applicant respectfully traverses this rejection.

Miyata only discloses a one-step polymerization process of pyrrole in a pyrrole vapor and fails to disclose a two-step method that includes a polymerization process and a chemical oxidation polymerization process after the polymerization process that claim 1 requires. In addition, Miyata does not disclose water vapor concentration and oxygen concentration in the steam atmosphere. In contrast, claims 4 and 5 require that the concentration of steam, i.e., water vapor, be 10 vol% or higher and that the concentration of oxygen be lower than 21 vol%, respectively. Moreover, the reference does not disclose a ratio d/L of a separation distance d of the electrically conductive macromolecular layer from a substrate to a length L that claim 9 requires. Accordingly, claims 1-9 are distinguished from Miyata, and the rejection should be withdrawn.

In view of the above, Applicant requests reconsideration of the application in the form of a Notice of Allowance.

Respectfully submitted,

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Dated: July 2, 2008

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